

The play's the thing

A former news anchor is working on her MFA in directing.

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Planning amidst change

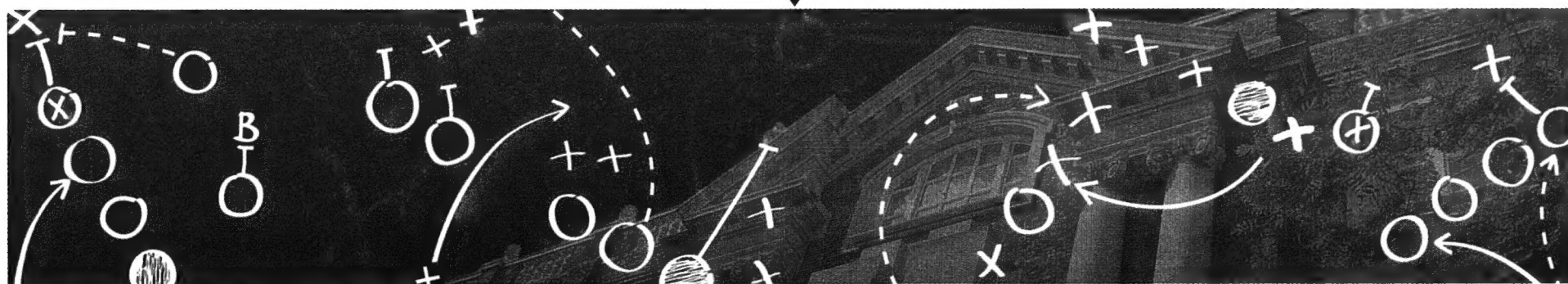
The University of Alberta has always said it wants the best faculty and the best students. Now it needs to restrict undergraduate enrolments. Does that make it elitist?

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Creating virtual life

A remarkable research project hopes to create life *in silico*.

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UNIVERSITY OF ALBERTA

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Risk researcher helps set skydiving record

Cindy Jardine was among 131 women who set a new freefall record.

By Richard Cairney

For someone who studies environmental health risks, Cindy Jardine knows certain activities, like jumping out of an airplane, can be dangerous. But she also knows some risks are worth taking.

Jardine recently joined in a world-record setting jump in women's freefall, at the second Jump for the Cause event held in Perris, California. A researcher in the University of Alberta department of human ecology, Jardine was one of 131 women from around the world who held a single formation for more than 10 seconds after jumping from seven airplanes flying 16,500 feet above the ground.

"This has to be one of the most exciting things I've ever done," said Jardine, who has made 1,076 jumps since taking up the sport in 1976.

The event was held to raise money for breast cancer research. Jardine raised about \$3,600 in pledges for the jump, which contributed to the \$300,000 that was raised overall.

"Everyone on this jump was hand-picked or specially invited," said Jardine. However, tragedy struck on the first day of the week-long effort. Shannon Embry, a skydiver from Tennessee, died when her parachute failed to open properly.

"There were many tears and hugs exchanged that night," said Jardine. "However, I don't think any of us reconsidered taking part in the event. I believe that we all felt we could best honour

"This has to be one of the most exciting things I've ever done,"

—Cindy Jardine



Shannon by doing our best to complete the record we had all come to attempt."

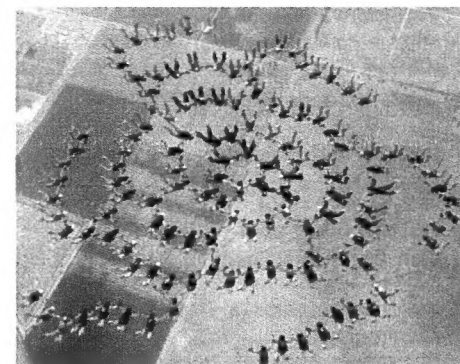
Bad weather nearly ruined those plans, too. Low clouds kept the skydivers grounded for days. While it allowed the jumpers more time to choreograph their jump, practising their airborne movements while standing on the ground, there is no substitute for the real thing.

"It takes a fair degree of skill to be able to fly your body efficiently enough and in a controlled manner – you want to

fly directly to where your slot is and pick up your grip," said Jardine.

The first few efforts failed. One jump on Friday came tantalizingly close, with 132 skydivers holding their formation for 2.34 seconds, just shy of the full three seconds required to officially set a record. With time running out, some of the participants were asked to "stand down" on the final day of the event.

"We had a few people who had difficulty in flying to their position and they



Cindy Jardine was one of 131 women who took their efforts to raising money for breast cancer research to new heights in Jump for the Cause.

were cut. One of them went low relative to the formation and the other person hit someone else pretty hard."

Finally, on Saturday morning, 131 women falling at a rate of about 17 feet per second held on to one another for 10.73 seconds.

"It was inevitable that they would do it," said Jardine's husband Errol Billings, a LAN administrator who also works in human ecology at the U of A and who travelled to Perris to help his wife in the jump.

A veteran skydiver, Billings envied the jump's participants but said the view from the ground was pretty spectacular, too.

"It looked like pink spots on your retina because they were so high," he said. "When they got to about 8,000 feet it was quite evident that they had the record. It was really exciting to watch it happen and see them just hold it and hold it and hold it...they just got determined and made absolutely sure they had it." ■



NINT names first researchers

Nanotech centre unveils plans for future

By Geoff McMaster

The National Institute for Nanotechnology (NINT) is now officially up and running with the announcement Tuesday of the first team of researchers.

There were no real surprises in the announcement as the list of names includes the University of Alberta's most prominent researchers in the field, including Drs. Michael Brett, electrical and computer engineering; Mark Freeman, physics; Jed Harrison, chemistry; Linda Palarski, oncology; David Wishart, pharmacy and Subir Bhattacharjee, mechanical engineering.

A seventh researcher, Dr. Karin V.I.S. Kaler, has been seconded from the University of Calgary Department of

Electrical and Computer engineering.

The institute – created last year as a \$120 million partnership between the National Research Council, the University of Alberta and the Alberta government – also unveiled its strategic plan for the next five years. It includes raising the institute's profile as the "flagship centre" of nanotechnology in Canada and among the top five in the world.

In order to do that, says NINT's acting director general, Dan Wayner, NINT will recruit up to 30 principal investigators, working together with up to 100 scientists and engineers from the U of A and 120 working staff provided by the National Research Council. The facility is temporarily housed in the Electrical and Computer Engineering Research Centre but will move to a new permanent home sometime in 2005.

"In the building that we are putting up, we're expecting to have 300 people buzzing around," said Wayner.

Wayner said the great "technical challenge" of NINT's first five years is: "How do you integrate the macro world that we actually live in with the nano world that we're talking about? If you don't learn how to do that, you don't have technology." He added that the science has to "come back to us either as public good or economic impact.

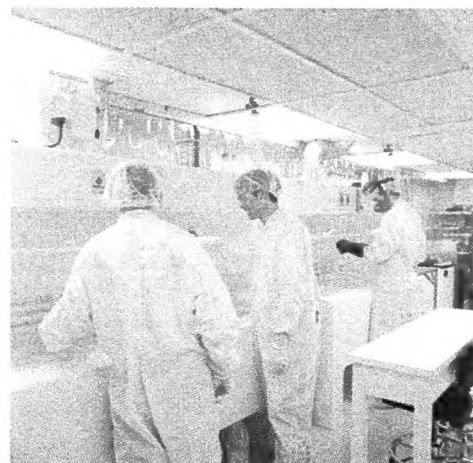
"There's a lot of work in the world playing with individual nano-scale components...but you don't have technologies until you learn to integrate those components into a system...we have to get away from just empirical science."

Some of the innovations "not that far out of reach," says Wayner, include smart materials capable of adapting to their environment, much in the same way human skin produces goose bumps to prevent moisture loss and cooling. Scientists are also working on drug delivery systems and diagnostic tools that operate at the molecular level.

Part of NINT's long term plan will involve establishing a business office for commercialization of nanotechnology innovations as well as to provide local industry access to the centre's facilities.

U of A President Rod Fraser, on hand for the announcement, talked about today's global competition in nanotechnology, with new centres emerging in California, New Mexico and Michigan, as well as in Japan, Germany, Holland and Switzerland. Within 10 to 15 years the industry is expected to be worth about a trillion dollars in commercial value.

One of NINT's major targets, said Fraser, is to be "successful in building in the greater Edmonton area, in Alberta and in Canada a number of super-successful,



The National Institute for Nanotechnology has announced its first slate of researchers.

world-competitive companies that will be a major force in that projected world nanomarket."

"We're expecting great success out of this," said Alberta Innovation and Science Minister Victor Doerksen, "because my reputation is on the line with this one. What would really excite me is if 15-20 years from now, people [across Canada] are talking about NINT."

For short biographies on the new researchers and a copy of NINT's research plan, visit their Web site at <http://www.nint.ca>. ■

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Armour earns Governor General's Award

Recognized for work as teacher, researcher, advocate

By Ryan Smith

When Dr. Margaret-Ann Armour grew up in a hamlet on the east coast of Scotland, she was always full of curiosity. For one thing, she liked to bake, but she could never understand why she had to put the ingredients into the oven before her mother would allow her to eat them.

"I think that's when I first began to develop an interest in chemistry," she said.

Her interests brought Armour across the ocean to Canada to earn her PhD in chemistry at the University of Alberta in 1970. In 1972, she returned to the U of A, where she has made a career as a chemistry professor and become internationally known as an expert in the disposal of hazardous wastes. During the early 1980s she became a founder of the Women in Scholarship, Engineering Science and Technology (WISEST) program, which is housed at the U of A. Since 1989 she has been the associate chair of the U of A chemistry department.

Her achievements as a teacher, researcher, and advocate for women in science have earned her the Governor General's Award in Commemoration of



Dr. Margaret-Ann Armour has earned her the Governor General's Award in Commemoration of the Persons Case.

the Persons Case, which she received at Rideau Hall in Ottawa last Friday. One of six women to receive the award this year, Armour was honoured for being "a mentor and a leader in encouraging young women to pursue education and careers in engineering and science," said Jean

Augustine, Canadian secretary of state for the status of women.

The Government of Canada established the Governor General's Awards in 1979 to celebrate the 50th anniversary of the Persons Case decision, and to salute the contributions of contemporary women to the advancement of women's equality.

"I was thrilled to meet the Governor General and receive the award. I feel like I still haven't returned back to Earth yet," Armour said Tuesday. She added that she shares the award with all the WISEST coordinators.

Armour continues her efforts. She recently helped arrange a series of upcoming talks at the U of A by Madeleine Jacobs, editor-in-chief of Chemical and Engineering News.

"She recently won a major award in the U.S. for her success in encouraging women to go into careers in chemistry, and she's a wonderful speaker," Armour said of Jacobs. "These talks are meant for a broad audience, and they should help people realize the importance and relevance of chemistry in our everyday lives." ■

Task force reviews benefits

Survey will help determine AAS:UA desires

By Richard Cairney

When the University of Alberta the Association of Academic Staff arrived at a contract settlement earlier this year, both sides agreed to re-examine the contract's benefits package to ensure association members are adequately and efficiently compensated.

Now a task force charged with assessing the package is planning to consult members of the academic staff to gauge feelings about levels of coverage and preferences for the way benefits are used. Co-chaired by Tom Scott from the School of

Business and Donna Herman, director of academic staff administration, the task force is studying statistical facts on benefit use, such as how many people use certain benefits.

"We're interested in what people view as most important, if there are things people see as relatively under-funded but quite important, and are there things they think are over-funded," said Scott. He added that the benefits package "has sort of been built up piecemeal over time."

Herman said information from the sur-

vey could result in changes to the benefits program. One idea is that members would receive a benefits account they could apply to areas they need. Some members, for example, might want to use funding available for massage to enhance their vision care packages, she said.

"We want to understand where the members' priorities are and where they think there needs to be improvement on the benefits."

AAS:UA member should expect the survey to be conducted in mid-November. ■

Confronting charges of elitism

What is the U of A's role in a changing education climate?

By Richard Cairney

We've heard it before. But this time, when President Dr. Rod Fraser told an audience of business and government leaders that the U of A's goal to attract the best faculty and the brightest students was now coupled with a move to restrict burgeoning undergraduate enrolment, charges of elitism followed.

Students begrudged what they saw as a harsh form of social Darwinism. Subsequent stories in the media suggested the provincial government was also uncomfortable with a policy cast as exclusionary. Students, faculty and staff wondered about an apparent 'new vision' for the university.

In fact, the U of A's vision hasn't changed, say administrators. It is, today, the same as it has been expressed for years: the U of A does everything it can to attract the best students, the best teachers, the best researchers and the best support staff. Same as always.

"The vision statement ultimately is focused on the search for excellence. We talk about students with outstanding potential, and we talk about outstanding staff – that's been there for years," said U of A President Dr. Rod Fraser.

What has changed, though, is the environment in which the U of A and other post-secondary institutions in the province operate. For about a decade, the provincial government and its post-secondary institutions have talked about 'Campus Alberta' a notion of co-operation among post-secondary schools that makes it easy for students to migrate from one to another.

That co-operation appears to be quickly evolving, with increasing demand for university education and speculation that colleges are about to earn degree-granting status for some programs.

Mark Cooper, a spokesperson with Alberta Learning, says two colleges, Grant MacEwan and Mount Royal, and perhaps others, have been lobbying for degree-

granting status. "I can only talk about the ones that have made it public – Mount Royal and Grant MacEwan," he said. "But all institutions have been involved in the overall discussions about how university education in Alberta should be provided to meet the growing demand."

The impact of increasing demand for a university education is clearly evident on campus this year as the U of A bursts at the seams with record levels of enrolment. Combining those numbers with provincial funding that has fallen to eighth place nationally, the U of A has chosen to restrict undergraduate enrolment even as it intends to expand graduate and post-graduate enrolments.

"We aren't going to reduce the size of the undergraduate body, but try to keep the rate it is growing at not more than two per cent a year," said Fraser. "Even that rate gets us to 40,000 students before too long." Fraser's personal view is that a university can get too large, making it "difficult to have a good quality learning environment."

"There is a pretty strong presumption in the U.S. and Canada that size does matter . . . if an institution becomes too large, it is difficult for students to make those kinds of connections with the broad student body." The idea, he says, is to make sure students admitted to the U of A are of the highest calibre, making the learning environment even better.

"There is a lot of research that says students do an awful lot of learning from one another," Fraser said. "You ultimately need to have in your student body a good mix, some of whom are students with outstanding potential and some of whom are, by their performance to date, outstanding students. They are all helping one another learn, helping one another develop as critical-thinking communicators, as leaders of tomorrow."

Provost and Vice President (Academic)

Dr. Doug Owrarn underscores the observation: "Students learn from students as well as from faculty," he said. "Especially in senior years, the kind of level of expectations and the level of discussions and the kind of wrestling through intellectual ideas with a peer group is a lot different," he said. "Engagement and interaction is the heart of learning."

But to Students' Union President Mike Hudema the idea of picking and choosing the best students, coupled with the university's history of tuition increases in the past decade smacks of elitism "in every connotation of the word I can imagine."

"I would argue against that," said Graduate Students' Association President Brad Wuetherick. "A university that is trying to be as successful in Canada and around the world as we are trying to be is going to try to excel. Excellence has to be the benchmark."

"Quality has to be the thing we consider first and foremost. Does that mean we are being elitist? I don't think so. It means we are trying to be the best."

Regardless of anyone's interpretation of the word 'elite,' both Fraser and Owrarn say it's possible, though not certain, that by allowing colleges to grant some degrees, universities will be free to focus more on graduate and post-graduate studies.

"Given the Campus Alberta discussion initiated by government, not us, saying they may extend degree-granting status, the question we'd ask is, 'Given our mission and our capacity what can we do best?' What we can do best, that no other institution except the U of C can, is build the kind of graduate programs needed for Alberta and maintain and enhance the quality of research programs," said Owrarn.

But rather than viewing it as relief from overcrowding, Hudema sees degree-granting status for colleges as a ticket to a

two-tiered education system.

"Grant MacEwan and Mount Royal could become the more liberal, arts-based colleges, and the U of A and U of Calgary will be your elite, research-based institutions that will be extremely expensive," he said. "You'd have a situation where students who can afford to go to the U of A have more opportunities and people who can't afford it go to Grant MacEwan and get a degree that may be seen as being of less value."

But Owrarn points out that other Canadian cities have multiple degree-granting institutions. Ottawa has two, Vancouver has two, Montreal has four. "At some point Edmonton and Calgary are going to get to a size where having a second degree-granting institution makes sense." And the vice presidents (academic) from Alberta's universities have let the province know that if that happens, universities won't allow that to happen at the expense of their own operating budgets, Owrarn added.

The only common ground anyone can find on the direction the U of A and its counterparts take is that the province needs to cough up more money for post-secondary institutions. "It doesn't matter if we go for more undergraduate students or graduate students, we need more money," said John Hoddinott, president of the Academic Staff Association: U of A.

And Wuetherick said the GSA's understanding of the situation is that "unless the province can come up with money, we need to restrict enrolment."

Is that money forthcoming? Would universities lose funds as students pursue degrees at colleges? Alberta Learning's Mark Cooper can't say. "Certainly that is a major question that requires a tremendous amount more discussion," he said. "Obviously, whatever is done has to be done within the fiscal realities of the day." ■



Increasing demand for post-secondary education means the U of A will restrict undergraduate enrolment. Colleges seeking degree-granting status from the province may take up the slack.

Funding Solutions Task Force: Round 1

Editor, Folio:

On November 1, around the time that this letter will be published, the University of Alberta's Board of Governors (BoG) will vote on the question of raising parking rates substantially (Proposal 1-1 from the Funding Solutions Task Force Report; FSTF). The whole report can be viewed <http://www.uofaweb.ualberta.ca/funding/>. Last week I alerted academic staff to some unadvertised implications of this proposal, and since then word has spread throughout the university and beyond. At the time of writing this I have received CCs of more than 150 e-mail messages sent to Phyllis Clark (VP Finance and Administration); all but seven are vehemently opposed to Proposal 1-1, and many are infused with an astounding degree of rancour.

Is this a campus-greening issue?

I'll deal first with the minority opinion – that parking rates should rise because of environmental concerns. The hypothesis is simple: raising parking fees will turn more of us to public transport, which in turn will reduce traffic congestion near the university and benefit the environment. The sentiment is noble but the reasoning faulty. Let's be perfectly frank: if the university community were to turn to public transport in significant numbers as a result of Proposal 1-1, this would defeat the whole purpose (to raise revenue against the university's deficit). Although other proposals from the FSTF may address environmental issues, nobody has ever pretended that Proposal 1-1 is among them.

The vast majority of the responses to my e-mail alert concurred with the basic messages that I was trying to convey, and many had additional insights.

The principle of how ancillary fees are determined

An essential ancillary service should be budgeted only for full-cost recovery, and not to subsidize even the academic operations of the university. The e-mails highlight so many instances in which public transport does not even begin to approach a realistic alternative for getting here: not for academic staff, not for support staff and not for students. In its essence, Proposal 1-1 represents nothing more than a non-negotiated, partial claw-back of our recent salary settlements, and a non-negotiated increase in tuition fees for many students. Students constitute the major group of clients of Parking Services (about 55 per cent) and, as is the case with any regressive tax, those with the lowest incomes will suffer the most.

Breach of due process

Even if one disagreed with the above arguments, the process whereby Proposal 1-1 is being rushed to final approval is clearly outrageous, and is even against principles of the FSTF itself. The FSTF process was supposed to be completely open and transparent and involve input from the whole university community. I would guess that up to mid-October it had enjoyed widespread support. But all changed when the Board Finance and Property Committee (BFPC) decided on October 17 to fast-track Proposal 1-1, along with the detailed schedule of new parking

fees, to the BoG for final approval. The following day, Folio published a major spread on the FSTF Report. Although the general proposal to raise parking fees was clearly stated, there was no mention of the magnitude of proposed increases, nor that it was the only item from the FSTF Report to be presented to the BoG for final approval on November 1. Furthermore, if Funding Solutions is really going to be an open, transparent exercise, I assume it will eventually be presented to General Faculties Council (GFC). But GFC was informed some weeks earlier that the October 28 meeting was to be cancelled, ostensibly because there was no compelling reason to meet. Can it have been purely by oversight that the university community was denied the one opportunity to even discuss Proposal 1-1 prior to it going before the BoG? I've been on the BoG for about two years now. I've often admired how professionally our senior administrators present their cases at the table. Although on occasion I have disagreed with their recommendations, never before now have I had occasion to doubt their respect for due process. GFC should be a link in the approval process of Funding Solutions; otherwise it will continue to invite nothing but scorn from the community it affects the most.

What binds us together

I must admit that I experienced one light-hearted moment during this brouhaha. I was reminded of Clark Kerr's (Chancellor of the University of California system in the late 1960s) jest that a multiversity is "a series of individual faculty entrepreneurs held together by a common grievance over parking". So why expose myself to potential ridicule by taking up the banner on this issue over the more than 100 others in the FSTF Report? It's simple: The rest of the FSTF Report will occupy our attentions and (I hope) get wider exposure over the next few weeks/months. The parking item is being hurried through, and if the indignant tone of the e-mails I've received is anything to go by ("demoralizing", "exploitative", "abhorrent", "outrageous", "rip-off" etc.), the administration has seriously miscalculated how much damage this will cause. I hope that between my writing and you reading this, the administration will have the sense to withdraw Proposal 1-1 from the Board agenda. ■

Reuben Kaufman
Academic Staff Representative
on the BoG

* I thank John Hoddinott for reminding me of this old chestnut (Clark Kerr, *The Uses of the University*, 3rd edn, Harvard University Press, Cambridge, 1982, p. 20.)

Parking recommendation a difficult decision

Editor, Folio:

My office has now received close to 300 emails concerning the proposed parking fee increase being voted on at today's Board of Governor's meeting (Nov. 1). I thought it prudent to share my response to those messages with the entire university community, to present it in the context of the larger university-wide financial situation.

The recommendation to increase parking rates was presented to administration by the Funding Solutions Task Force (FSTF), which was struck in response to the university's budget crisis. The FSTF was asked to identify ways to increase revenue and contain costs in a manner that would least jeopardize the U of A's remarkable successes of the past several years. By making maximum use of all our resources, the goal was to help us avoid the massive cuts that would result in job loss and deteriorating academic programs.

My colleagues and I supported the FSTF's recommendation to increase parking rates. It was not an easy decision, and we knew it would not be popular. It is a financial decision, however, and in keeping with the harsh reality of the university's budget. The University of Alberta owns and operates the parking services on

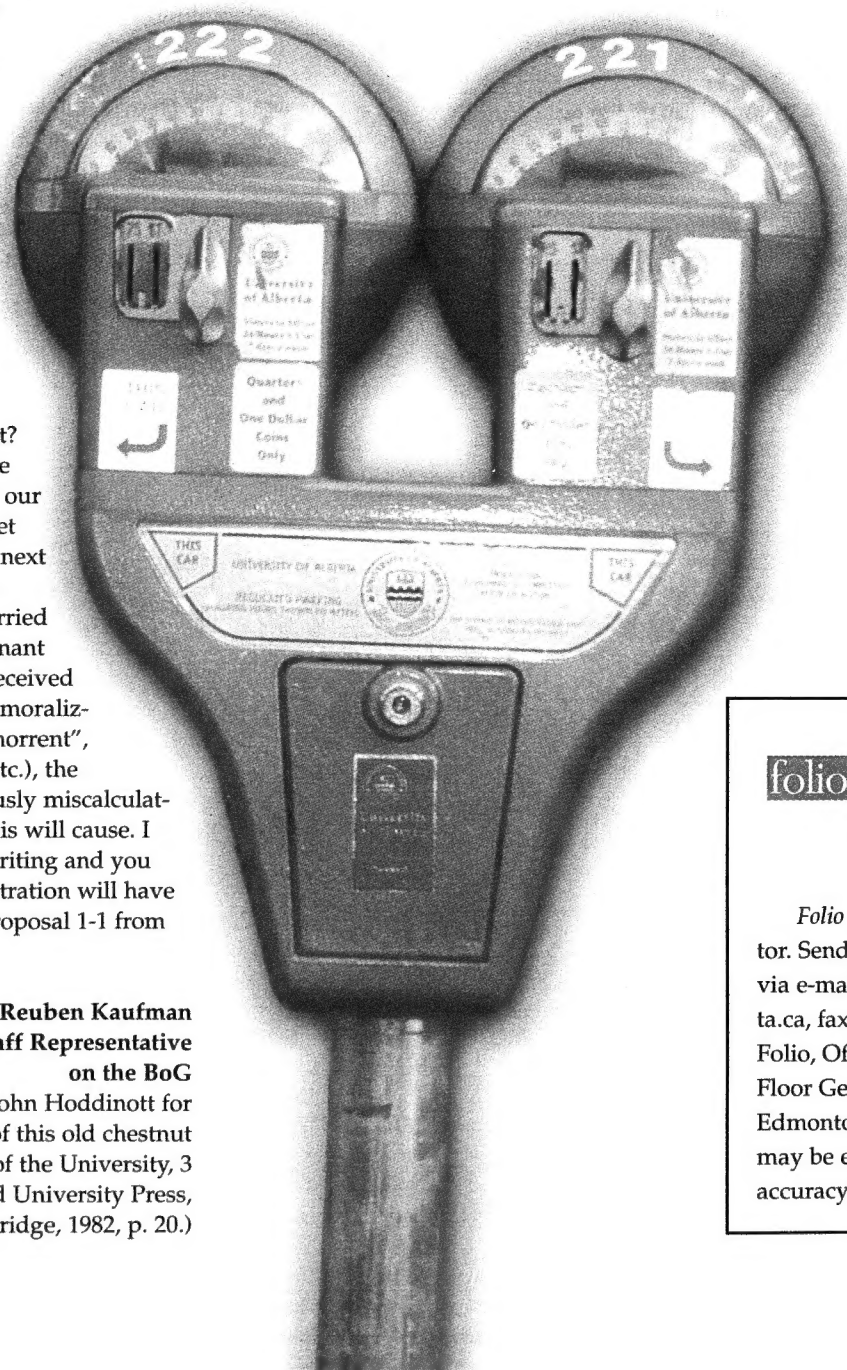
its property; failing to charge fees that are more in line with market rates does not make full use of this precious resource. The Board Finance and Property Committee agrees with this, and, after careful review, supported the recommendation, which proceeded to the Board of Governors.

The budget situation at the university is extremely serious. Our sources of unrestricted revenue are limited. We will continue to make every effort to increase government support of the University of Alberta; in the meantime we must demonstrate a commitment to do everything possible to balance our books.

There is more work to do. The Funding Solutions Task Force remains active, and is open to suggestions from any member of our community on ways to contain costs and increase revenue. I encourage you to contact them. You can see more detail and background about the FSTF, including contact information and the proposed parking increases, at:

<http://www.uofaweb.ualberta.ca/funding/> ■

Phyllis Clark
Vice-President (Finance and Administration) and
Acting Vice-President (Facilities and Operations)



folio **letters**
to the editor

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From news anchor to drama student

Sisters cast draws on journalist's talents

By Richard Cairney

As a journalist, she reported from four different war zones. Once, she was arrested by the Israeli Defence Force and held in solitary confinement for interviewing Palestinians after dark. And now Brenda Finley is taking on a new challenge: directing plays.

Finley, who worked in Alberta as a television news anchor and radio host from 1982 – 2000, was also, all the while, working in theatre as an actor. Fifteen years ago she became an Equity performer, a member of the national association representing actors.

"I'd always told news directors, until I was blue in the face, how important it was for me to keep up my acting skills," said Finley, who is now working towards her MFA in directing at the University of Alberta. "It's one thing to be a good journalist, to gather information, but if I have no skills to communicate that information, what kind of a broadcast journalist am I?"

Perhaps best known to Albertans for her work co-anchoring CBC-TV's Alberta newscasts from Calgary and as host of CBC Radio's Midday Express, Finley is assistant director of *Sisters*, which runs until Nov. 9 at the Timms Centre for the Arts.

After leaving CBC in 1998, Finley formed a production company of her own and immediately went to work in Northern Ireland for CTV NewsNet. But having already earned a performance certificate from the Royal

Academy of Dramatic Art in London and a performance diploma from the London Academy of Music and Dramatic Art, she wanted to return to theatre and study directing.

"I looked at a lot of schools – York, Yale, some of the British schools. But when I'd been at school in London they knew of two Canadian schools: the National Theatre School and the University of Alberta," said Finley. "I had been interested in the U of A's master's program for a couple of years, and I finally got in. When I'm done, in two

years, I will have directed six plays, which is what attracted me to this program."

Written by Wendy Lill, a member of Parliament for Dartmouth, NS, the subject matter of *Sisters*, the abuse Canada's Aboriginal peoples suffered at religious residential schools, has its own contemporary news angle. Finley finds that aspect of the play both familiar and intriguing.

As dramaturge for the production, one

"I'd always told news directors, until I was blue in the face, how important it was for me to keep up my acting skills. It's one thing to be a good journalist, to gather information, but if I have no skills to communicate that information, what kind of a broadcast journalist am I?"

– Brenda Finley



Former journalist Brenda Finley is working towards her MFA in directing.

of Finley's jobs is to provide relevant information about the issue to director Kim McCaw, a drama professor who says he is impressed by the journalist's research skills.

And as someone who has interviewed people who lived through abusive conditions at residential schools, Finley finds Lill's script as riveting as the real thing. "It is a masterpiece," she said. "Each time you revisit it, you see something different."

"This play will endure beyond today's headlines," added McCaw. "It also examines larger, timeless elements, like how something can start off with the intention of being good and actually become destructive. "The church doesn't intend its school to be destructive, but it has a lot to do with colonization, a lack of respect for a whole group of people and a desire to change them in a way that probably isn't for the best." ■

Young leader leads ASTech awards charge

University's connected to six of 15 provincial awards

By Geoff McMaster

He just turned 23, has yet to graduate from medical school, but Talib Rajwani's research career is already going gangbusters.

Having taken a year off from his medical studies to earn a master's degree in radiology, Rajwani is making a big splash in the medical community with his work on scoliosis, a spinal cord disorder. His research has been presented around the world, and last summer he won a medal for the best paper presented at the Canadian/American Orthopedic Association meeting along with his co-author and co-supervisors, Dr. Ravi Bhargava, Dr. Robert Lambert, and Dr. Keith Bagnall.

His latest accolade, however, is a special Alberta Science and Technology (ASTech) Leadership Award, given to those under the age of 30 who are shaking things up in the world of science and technology. The Leaders of Tomorrow Awards, sponsored by Alberta Innovation and Technology, was one of 15 handed out at the ASTech Gala recently – six of them had a University of Alberta connection.

"This is fantastic," said Lambert, when told about the award. "He's extremely intelligent...but Talib is also a pleasure to work with and extremely motivated...he gets everybody enthusiastic and so gets the most out of them."

"If he has a problem he's working on, he'll say, 'Can we meet tomorrow at 4?' and even if you don't have time, you make time because of his enthusiasm." Lambert then added in jest: "He puts us all to shame."

Rajwani decided to pursue graduate work in radiology after working as a summer student in the scoliosis lab, he said. His thesis focuses on the possible connection between a growth plate in the spine called the neurocentral junction and the



Talib Rajwani was one of many University of Alberta students and faculty to earn ASTech Awards.

development of scoliosis in adolescents.

"For a long time the neurocentral junction was discounted as a cause of scoliosis in adolescence because it was thought that it closed too early to account for the condition in that age group," said Rajwani. However new research, partly aided by MRI scans, has re-opened up the potential for that connection, which could lead to improved diagnosis and treatment.

As far as the future goes, says Rajwani, it's pretty much wide open. But he'd like to strike a balance between clinical work and research, perhaps following his current interests in radiology.

Other U of A ASTech award recipients include:

- Dr. Jed Harrison of the department of chemistry received an award for Outstanding Leadership in Alberta Technology. Well known for his lab-on-a-chip concept for carrying out complex lab process on a single chip,

Harrison is cited as a "pioneer in the miniaturization of instrumentation for biochemical and genetic analysis." The technology allows for such applications as rapid clinical diagnosis, the detection of biological warfare agents in the field and faster drug discovery.

- Andrew W. Gilliland, director of stakeholder relations for the National Institute for Nanotechnology (NINT) at the U of A, is credited for bringing together major partners, such as the National Research Council, the Alberta government and the University of Alberta, to create the \$120 million institute. Recognized for "significant vision and dedication to building a thriving innovation community in Alberta," Gilliland was given the Outstanding Contribution to the Alberta Science and Technology Community Award.
- Dr. Allen Good of the department of biological sciences helps farmers

improve crops by investigating the environmental stresses – such as drought, pest attacks, disease and nutrient limitation – that limit crop growth. He is now developing a strain of canola with an enhanced ability to use nitrogen, and is working to help the agricultural industry reduce its use of chemicals through improved biotechnology. For his luminous research career, Good received the AVAC/Astech Innovation in Agricultural Science Prize.

- Pi in the Sky, a publication that helps high school students get turned on to math, was awarded the Excellence in Science and Technology Public Awareness Prize. Produced twice a year under the leadership of Dr. Wieslaw Krawcewicz of the department of mathematical sciences, the publication is meant to promote mathematical sciences and related careers, and help students establish direct contact with teachers and academics. It is sponsored by the Pacific Institute for the Mathematical Sciences and circulated to high schools in Alberta and B.C.
- Micralyne Inc – a company specializing in microtechnology and originally founded at the University of Alberta as a non-profit institute in 1992—received the Outstanding Commercial Achievement in Alberta Science and Technology Award (for companies with gross sales less than \$25 million per annum). Micralyne's work on microsystems, nanotechnologies and micro-electro-mechanical systems allows for improvements in the tiny components used in telecommunications, biosystems, aerospace and automotive electronics/sensors. ■

Checking wildlife's pulse

Killam recipient an ecologist par excellence

By Geoff McMaster

Dr. Stan Boutin has been described by his peers as "one of the finest and most respected forest ecosystem ecologists anywhere."

From his early studies of snowshoe hare in the mid-1980s to his work on the life histories of red squirrels, Boutin is one of Canada's top experts on how Boreal mammal populations adapt to their environments. In this age of global warming, and in a province that thrives on forestry, agriculture and oil and gas exploration, that's no small role to fill.

Now Boutin is getting the recognition from his home institution that he's had for years in his own field – the prestigious Killam Fellowship.

"This is my third kick at the can," said Boutin, "and so I'm pretty happy to finally get it, because I think the program we've been running is a good one. I'm glad it's receiving some of the credit."

Boutin's work has been published in the top journals both in his own field and in all of science, including *Science* and *PNAS* (*Proceedings of the National Academy of Sciences*). And as a teacher, he is known for inspiring students to hear the call of the wild. Of 26 masters students he has supervised, for instance, all but one continued their studies in the biological sciences.

Boutin says he leads "two research lives." The first is in pure science and ecology using red squirrels as a model system to answer questions about the complex relationship between mammals and the ecosystems in which they live. He has been collecting data on the squirrels for 17 years and has records on more than 4,000 individual squirrels.

"We're capable of doing a kind of human-census level of assessment with these animals. We know who's going where, who their mom is, how many sur-

vive, where they settle and who owns what real estate," he said. Squirrels, he explains, are highly territorial.

The data bank, one of the most extensive on squirrels ever compiled, allows Boutin to ask questions about evolution, such as "how genes change under selection pressure." In fact he's just had a groundbreaking paper accepted for publication on that topic, which is sure to raise eyebrows around the world.

Boutin's other life is in applied research, taking stock of how human activity, particularly industry, disturbs natural ecosystems. He has been studying the woodland caribou in northeastern Alberta for about 10 years and has enough data to demonstrate "they are not doing well."

"Most populations are declining, and certainly human activities are having some influence on that." The good news he says, is that response from industry to reduce its impact has been mostly positive. As holder of a Natural Sciences and Engineering Research Council industrial chair in integrated landscape management, Boutin is in a unique position to help companies improve their ways.

He points to Alberta-Pacific Forest Industries, for example, which has made changes "in spades" after hiring Boutin as their director of science and technology for two years. Al-Pac came to recognize scien-

"I'm not one to complain

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We as academics have to

do more of the latter."

– Dr. Stan Boutin



Dr. Stan Boutin has been awarded a prestigious Killam Professorship.

tists are far more than the bearers of bad news.

"They really have been good for us at the university since they realized, 'Gee, scientists can actually help us with this. They're not an albatross, they're not always being negative, they can actually come up with solutions,'" said Boutin.

"I'm not one to complain that the sky is falling," he added. "I think the real solutions have to come from working with industry... It's easy to cry wolf – it's a lot harder to find solutions. We as academics have to do more of the latter." It's sometimes necessary to cry wolf, he says, "but we tend to stop there too often."

After almost two decades in the field

Boutin is convinced global warming is a reality, and what's more, advancing at a steady pace. So it is not surprising that he has some strong views on the contentious Kyoto accord.

"My feeling is we have to be extremely aggressive about the reduction of greenhouse gases. And I'm not sure going to the exact Kyoto targets is the issue. I fully agree with the provincial government that the federal government has to get a plan out there ASAP, and we have to get moving on it..."

"Unfortunately you get a huge number of individuals, companies or governments who want to drag their feet, and that's just not a solution." ■

Funding keeps med school hopeful on track

Bursary allows student to focus on studies

By Tara Strudwick

Simon Ko wants to be a doctor, and it's a good bet that he'll make it. A third-year science student majoring in cell biology at the University of Alberta, Ko earned an 8.7 GPA (out of nine) last year and has developed a supporter in Dr. J. William Lown.

Based on the impression Ko made as a first-year chemistry student, Lown, a chemistry professor at the U of A, hired Ko two summers ago to work in his anti-cancer drug research lab. Lown recruited Ko again this past summer, and describes the student as a "fast learner" who has demonstrated "great intelligence, dedication, compassion, and sense of vocation."

Ko is already a co-author of one article in *Heterocyclic Communications* and is currently working on another, and Lown sees great promise for Ko in the field of medicine.

Ko's academic prowess has earned him a number of scholarships and awards, including the U of A Merit Based Bursary, which is awarded through the U of A Student Financial Aid and Information Centre (SFAIC) and is based on financial need and academic standing.

The \$1,300 bursary helped Ko to pay some of his tuition, to pay back his parents for money borrowed, and to purchase some of the textbooks he had not been able to afford. He said that without the \$1,300 bursary he would be forced to take his focus off school and sacrifice his academic standing by getting a job.

Ko is just one of more than 5,000 stu-



Simon Ko received a U of A merit bursary, which helps him to focus on his studies full time.

dents to receive funding this year through SFAIC. "Without the financial assistance of alumni, faculty and staff of the University of Alberta, many students would not have the opportunity to complete their academic programs. Every dollar makes a difference in the lives of our students," said Rachel de Leon, an emergency aid advisor with SFAIC.

Ko is grateful to all those responsible for the bursary for "demonstrating their ability and willingness to contribute to the University of Alberta and to promote academic well-being and excellence."

Although he spends most of his time studying, Ko is a self-taught guitarist and is involved in a program that uses drama to teach children. He also plays badminton

and enjoys writing. "It's the balance that keeps me healthy," he said.

(With the 2003 Family Campaign around the corner, this is the first in a series of articles illustrating the impact giving has on University of Alberta students. For further information on other Faculty & Staff Gifts in Action contact Jeff Wright in the Development Office at 492-6765.) ■

Rare thriller added to special collections

By Ryan Smith

Not much is known about Anthony Fredrick Holstein, but nearly 200 years ago he terrified readers with his dark, Gothic novels. Some scholars suspect the Holstein name is a pseudonym, but, whoever he was, one reviewer called him a "horror-monger unlike any other."

The University of Alberta Bruce Peel Special Collections Library recently obtained one of Holstein's novels, an original four-volume set of *The Assassin of Glenroy*, published in 1810 by Minerva Press. It is the only copy of the novel in North America and adds to the already extensive collection of 18th and 19th-century holdings, many of them published by Minerva Press, in the U of A special collections.

A review from 1813 in *The Critical Review*, a publication British book dealer C.R. Johnson describes as "normally unsympathetic to Gothic extravagance", praised Holstein, claiming "he has the faculty of whisking us from a murder to a ball, from a gloomy dingle haunted by a frightened nun to a concert room, and this with so much agreeable facility that we hardly know where we are."

Another review from the early 19th century said *The Assassin of Glenroy*, one of 12 Holstein is credited with writing, is a book in which "terror and tragedy are not assuaged by virtue and common sense, nor is the Gothic night finally driven off by rational dawns."

Dr. Gary Kelly, a U of A professor of English who specializes in studying novels of the 18th and 19th centuries, said Gothic novels enjoyed a "heyday" from 1760 to 1820. "The genre has survived and now

pervades our popular culture, in everything from *Buffy the Vampire Slayer* to movies like *The Sixth Sense*."

Kelly also noted it was expensive to get fiction 200 years ago. He said most people paid private libraries on a nightly basis in order to read books. "Most of the books published at that time were only meant to be read two or three times before they fell apart. That's one of the reasons why the remaining books are so valuable today."

John Charles, a librarian at the U of A Bruce Peel Special Collections Library, said scholars have traditionally viewed 18th and 19th-century novels published by Minerva Press as the "Harlequin romances of their day."

However, both Charles and Kelly noted there has been, in recent years, renewed interest and respect among scholars for the Minerva books. Charles said academics from across North America have travelled to Edmonton for weeks at a time to study the U of A's 18th and 19th century holdings.

Charles expects *The Assassin of Glenroy* will be catalogued and available in the U of A special collections library in about two months. Charles recently purchased the Holstein book, and five other rare titles, with support from the Friends of the University, who have been helping to purchase books since the early 1970s.

Other rare books purchased include a book of Greek poetry published in 1566 and an Italian translation of D.H. Lawrence's *Lady Chatterley's Lover*, adding to the U of A's already extensive collection of editions of this book. ■

Nobel winners visit campus

Sulston speaks against private interests

By Ryan Smith

A few weeks ago, Dr. John Sulston won the Nobel Prize for medicine. And recently, he and two other equally renowned scientists dropped by the University of Alberta.

Sulston, Dr. Phillip Sharp, and Dr. Michael Waterman came to the U of A to deliver lectures as part of the Minds that Matter symposium on campus. In the morning, however, Sulston, a researcher at the Lab Wellcome Trust in Cambridge, United Kingdom, and Waterman, a professor of mathematics, biological science, and computer science at the University of Southern California, toured the U of A department of medical genetics, meeting and consulting with students and professors.

"It was a humbling experience to meet them," said Kelly Narine, a medical genetics grad student who works in Dr. Susan Andrew's lab at the U of A. "They asked a lot of questions and really showed an interest in what we're doing here."

Andrew and her students are conducting basic research to understand the pathways that a family of proteins uses to repair skin that has developed skin cancer due to ultra-violet light exposure.

"I didn't tell him, but I actually did my master's degree on *C. elegans*," said Andrew, speaking of *Caenorhabditis elegans*, a type of nematode worm that Sulston and his colleagues "sequenced" or "mapped" genetically.

Sulston's team discovered that certain cells in the worm are destined to die through programmed cell death. This demonstrated the first mutation of genes in this process. Waterman is responsible for the introduction of some of the most important mathematical concepts, statistical models, and computer algorithms used for genome analysis. Sharp is best known for discovering that genes contain nonsense

segments that are edited out by cells in the course of utilizing genetic information.

"You could say these guys are heroes of science, and I think it's inspiring for the students to meet them...Scientists tend to work in labs in isolation, and it's one thing to read about famous, successful scientists, but it's another thing to meet them in person," Andrew added.

Before his lecture, Sulston said he wanted to make the point that if the public project to sequence the human genome (which Sulston played a large role in) had not been successful, and the private concerns – mainly, Celera Genomics Group in the U.S. – had been the first to complete the task, "then that would have been really, really bad."

He called the efforts of private concerns to patent genes "appalling". As an example, he cited Myriad Genetics, a U.S. company that has patented the rights to conduct tests on two genes that have been linked with breast cancer.

"We actually discovered one of the genes, BRCA-1, in our lab, but we're a non-profit organization and don't have the army of lawyers, or the will, to claim a patent for it," Sulston said. "Now Myriad charges between \$3,000 and \$5,000 to screen for this gene, and there's no way the procedure should be that expensive. It's deplorable."

While Sulston and Sharp have both won the Nobel Prize, all three of the scientists visiting the U of A today have been awarded the Gairdner prize, Canada's most prestigious award for medicine. The Gairdner Foundation, Genome Canada, Alberta Cancer Board and Alberta Cancer Foundation, Alberta Heritage Foundation for Medical Research, Genome Prairie, the University of Alberta and the University of Calgary sponsored the symposium. ■



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CREATING VIRTUAL LIFE

Project CyberCell is making headway in an international effort to create life on a chip

By Richard Cairney



Dr. Mike Ellison, seen here in Project CyberCell's clean room, heads up an ambitious research initiative to create virtual life. The lab boasts leading-edge equipment, including a Nuclear Magnetic resonance imager (lower right).

"In 10 years this is not going to be pie in the sky." Excitement creeps into Dr. Mike Ellison's voice when he imagines what his research could lead to some day: Project CyberCell aims to create a virtual representation of a living cell, and ultimately more sophisticated organisms, which would behave digitally in the same manner as the real thing.

"This will lead to smarter, faster, cheaper science, because we can use the computer to tell us what the most appropriate experiments are to test and design drugs," said Ellison, executive director of the University of Alberta's Institute for Biomolecular Design. "There will be a day when we test chemicals not only for their intended uses but also for their side effects."

"We might even be able to make evolutionary predictions: say, for example, we want to develop an organism that could consume PCBs. We could imagine adding PCBs to the virtual environment, pressing the 'evolution button' and allowing the organism to evolve genetically so that it could exploit a toxic environment. Then, all of a sudden, we've got the ability to deal with PCBs."

"We may even be able to program simple organisms as smart pills – nano-devices that target themselves to sites of disease and dispense drugs cleverly by anticipating changes in human physiology."

Ellison is willing to speculate on the outcome of Project CyberCell but is equally frank about its complexity. Our biological history is written in the three billion letters of genetic code contained in each of our one hundred trillion cells. Mapping the human genome is considered the greatest scientific achievement of our time, but Project CyberCell, and its counterparts around the world, is involved in work that will make the Human Genome Project look simple.

To create computerized life, researchers need to know everything that goes on in a cell and why. To do that, scientists need to

be grounded in proteomics, the identification of all the proteins in a cell, and the understanding of how those proteins work together. The idea is that understanding how life itself works will reveal how disease works and how to best cure or prevent illness.

But mapping the human proteome is a greater challenge than mapping the genome. DNA consists of four chemical bases: adenine, cytosine, guanine and thymine. Proteins, on the other hand, are constructed from 20 different amino acids. Even when researchers determine the amino acid composition of a particular protein, other intimidating questions arise: what does the protein do? How does it interact with other proteins?

The complexity of the challenge goes on: the human genome contains some 40,000 genes, each capable of creating one or more proteins. Different organs produce different types of proteins too: the pancreas makes one set; the brain makes another.

Because of that level of complexity, Project CyberCell is focusing on a smaller, more achievable goal. It aims to create a virtual version of the bacterium *Escherichia coli*. "It's the simplest organism that we know the most about," said Ellison. "You gotta walk before you can run."

The bacterium is relatively simple, with 4,000 genes each producing one type of protein. Ellison's goal is simple too, but not easy. "We want to find out everything that happens when conditions change." For example, when a cell's temperature changes, Ellison and his team want to know which proteins increase and which decrease; they want to know the rates at which a gene synthesizes a protein, the rate at which the protein carries out its function and the rate at which it degrades. "We need reliable numbers to drive and validate our simulation."

The CyberCell team is under no illusions about the magnitude of the task ahead and has formed key international partnerships to move the project along. It has joined forces with a virtual cell consor-

tium in the U.S. called EMC2, E-Cell in Japan and GlaxoSmithKlines' Biological Simulation division in the U.K. Together these groups formed the first international virtual cell alliance, sharing the work load and standardizing the way data will be collected.

At a conference in London this week, the partners will meet to share their progress to date. "We've just about completed the most comprehensive proteomic analysis of *E. coli*," said Ellison of CyberCell's contribution to a fact-sharing meeting to "kick start the development of the virtual cell."

Mapping the human genome is considered the

greatest scientific

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but Project CyberCell, and

its counterparts around

the world, is involved in

work that will make the

Human Genome Project

look simple.

Some of

CyberCell's partners

come from the most unlikely

places – including Alberta's oil

patch. Project CyberCell

researchers have teamed up with

Calgary-based Computer

Modeling Group. The firm was

formed three decades ago

when it began to

develop computer models of oil and

gas fields for resource companies,

simulating extraction scenarios that

show geological changes as drilling progresses.

"They model space in 3-D and run

scenarios over time, in other words four-dimensional modeling. We looked at their work and thought 'gee, that's kind of what a virtual cell is going to look like.'"

Ellison turns his attention to a computer screen image that resembles a schematic drawing of circuit boards in a VCR or

some other household appliance. The circuit

was designed by GeneNetwork

Sciences, another one of CyberCell's partners, operating out of Ithaca, N.Y. GNS,

among other things, has created a symbolic representation of what goes on in a cell.

"These guys construct networks of what gets turned into what. They've

developed a whole language you can use to represent every kind of molecular event

that goes on in a cell," he said of the drawing. "A lot of people say visualization of

this is window dressing. It's not. We have to find ways to represent this so the

human brain can understand it. We all prefer to look at a graph rather than stare

blankly at rows and rows of numbers. The idea now is to get Computer Modeling

Group together with the Gene Network Sciences people to build the circuit for *E. coli* in 4-D."

There are just too many things going on in a cell for researchers to get their

heads around, says Ellison. "We need some kind of intellectual prosthetic to look

for and recognize patterns. The virtual cell will make sense of extremely complicated

molecular processes by computational modeling."

The job of Ellison and his team at the Institute of Biomolecular Design is to generate data about cells. "We will provide

the biological relevance. We have an enormous advantage over other international

efforts because each of our groups is so highly focused."

There are plenty of other efforts underway. In fact, they've helped spawn an

entire industry. In 1998, investment analysts Frost & Sullivan predicted the market

for bioinformatics equipment would be worth \$2.2 billion by 2004. It has more

recently estimated the market for proteomics instruments, worth an estimated

\$700 million in 1999, would top \$5.6 billion by 2005.

The field promises not only to speed research findings but also to change the

way research is managed. An inquiry as ambitious as Project CyberCell's means

breaking down barriers between different disciplines.

"We have to be able to play nicely with

computer scientists, mathematicians, physicists, biologists, biochemists and chemists. This in itself is a major challenge for us. This is not the way universities are structured. This project demands that fences be torn down."

Clearly, the creation of virtual life will not be achieved with a single discovery but will instead be the result of many smaller successes. Indeed, the dream itself was sparked by technological advancements.

Ellison's work in Project CyberCell is, in a way, the product of "a mid-life crisis."

"Science is so reductionist," said Ellison, a professor in the U of A's department of biochemistry. "You pick one or

two aspects of cellular function and try to understand them in their entirety. Only in the last couple of years has the technology

for being able to look at large numbers of proteins been around.

"So here we have this embarrassing amount of riches in data and the bottleneck is the interpretive engine. The limiting factor used to be our ability to collect data. The problem now is to interpret and gain insight from so much data."

Through the U of A's Institute for Biomolecular Design, Project CyberCell is

already armed to do much of the work required. Its lab on the third floor of the

Medical Sciences Building is vast. It houses an impressive collection of equipment:

an X-ray area detector helps determine the structure of proteins in crystal form; a new,

600-mhz Nuclear Magnetic Resonance imager examines proteins in solutions,

giving a more accurate physiological picture of their structure; three mass spectrometers, workhorses in functional proteomics,

quickly identify proteins; and a robotic-equipped clean room helps researchers

accomplish in hours what once required days.

Securing funding for the project has, unfortunately, been more difficult than

Ellison and his colleagues hoped. It has already been awarded some \$15 million

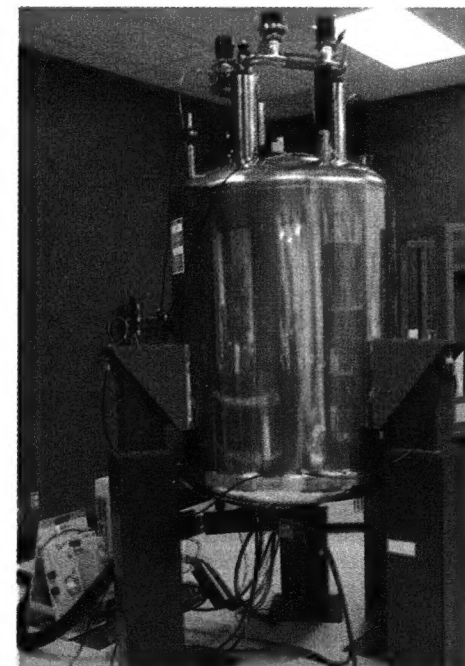
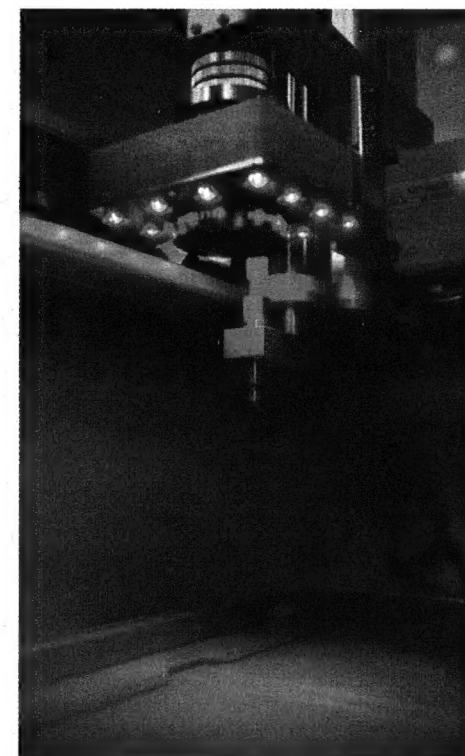
for equipment from the Canada Foundation for Innovation, including \$5.5

million announced in February. The

Alberta government has announced \$4.7 million to help secure the CFI funds, which are contingent on matching funds. Private partnerships are also being successfully pursued. IBM has just awarded Project CyberCell a \$1 million Strategic University Research Grant. CyberCell has filed its first patent for a cell simulator and IBM is helping out so CyberCell's work is compatible with IBM's Blue Gene super-computer.

But CyberCell is still about \$1 million short of its current goals. "Some things will have to wait a little longer than we'd like them to," surmised Dr. Joel Weiner, Ellison's research partner.

Ultimately, though, Ellison thirsts for success, and longs for a day when his project and others like it have gone farther than most dare to dream, to the creation of a virtual human. "If we can do this with *E. coli* we can extend these methodologies to more sophisticated types of cells and create more complicated virtual cell types." ■



iCORE announces Industrial Chair

The Alberta Informatics Circle of Research Excellence (iCORE) is pleased to announce its first joint Industrial Chair Award made in collaboration with Natural Sciences and Engineering Research Council of Canada (NSERC), TRILabs, and the University of Calgary.



Dr. Jim Haslett, iCORE/NSERC/TRILabs Industrial Chair Wireless Science and Technology Initiative

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November 13, 2002, 7:30pm – 9:30pm
Shaw Conference Centre, Hall A

While the current status and future prospects of Canada's forests are a matter for considerable debate, few would argue that ensuring a sustainable future for Canada's forests is an issue that concerns all Canadians. To discuss the various challenges involved, the Sustainable Forest Management Network (hosted by the University of Alberta) has assembled a diverse panel including:

- Vic Adamowicz, Program Leader, SFM Network
- Denis Brière, Dean, Faculty of Forestry, Université Laval
- Stewart Elgie, Executive Director, Canadian Boreal Trust
- Henry Lickers, Director, Dept. of Environment, Mohawk Council of Akwesasne
- Paul Perkins, VP, Forestlands and Strategic Planning, Weyerhaeuser Company

A general discussion and question period will follow the panelists' presentations. This free public session is part of the Sustainable Forest Management Network's Third International Conference, *Advances in Forest Management: From Knowledge to Practice*, November 13-15, 2002. For registration information to attend the whole conference, visit the SFM Network website: <http://www.ualberta.ca/sfm>.

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UNTIL APR 2003

Campus Observatory The Campus Observatory is open to the general public every Thursday night beginning at 8 p.m. during the academic year, with the exception of holiday periods. The Observatory is operated by faculty and student volunteers belonging to SPACE (Students for the Promotion of Astronomy, Culture and Education). For further information, please contact Dr. S. Morsink at 492-3987.

UNTIL NOV 17 2002

Kalamkari India by Design This exhibition celebrates the rich dyed and printed textile traditions of India. These complex silk designs and costumes are drawn from both the University Textiles Study collection and from a grouping of student works from the Department of Human Ecology. Location: McMullen Gallery UofA Hospital. Gallery hours are Monday to Friday, 10:00 a.m. to 8:00 p.m. Saturday and Sunday, 1:00 p.m. to 8:00 p.m. Weekend and evening hours are dependent on volunteer availability.

UNTIL DEC 31 2002

Exhibit: Dressed for Rites of Passage Our lives are full of rites of passage. Some are small, personal and informal, others are large, formal and very public. Universities are places where both individuals and institutions mark many changes and accomplishments, often with the use of clothing. Whether it is the academic robe worn by Pierre Trudeau when receiving an honorary degree, an evening gown worn to a 1930's graduation dance or the Panda tattoos of a victorious women's rugby team, we find visible ways of marking and celebrating our lives. Mon - Fri: 7 a.m. - 9 p.m. Saturdays: 8 a.m. - 4 p.m. Sundays & holidays: 12 p.m. - 4 p.m. Free. Lobby Gallery, Human Ecology Building.

UNTIL NOV 06 2002

Extension Centre Gallery Floral Bounty, an Exhibition of Watercolours and Oil pastels/Oilbar by Lana Mauer, a graduating presentation for the Certificate of Fine Arts, Faculty of Extension. Monday - Thursday 8:30 a.m. - 8:00 p.m., Friday 8:30 a.m. - 4:30 p.m. and Saturday 9:00 a.m. - 12 noon. Location: Extension Centre Gallery, 2nd floor, University Extension Centre.

UNTIL NOV 09 2002

Sisters Studio Theatre presents Sisters, by Wendy Lill. When a nun who once taught at a Native Residential school receives a letter from a former student, she realizes and relives the pain she caused there. Shows begin at 8 p.m. Matinee Thursday, November 7 at 12:30 p.m. Please call the Box Office at 492 2495 for tickets. Subscriptions for the remaining five performances are still available. Location: Timms Centre for the Arts. Running October 30 to November 09. Web site: www.ualberta.ca/~drama/Studio/index.htm

NOV 01 2002

Department of Biological Sciences Department of Biological Sciences Molecular Biology and Genetics Research Group seminar series. Susan Lees-Miller, University of Calgary presents a talk on "The role of ATM and DNA-PK in the cellular response to ionizing radiation" at 3:30 p.m. in room M-149 of the Biological Sciences Building.

NOV 01 2002

Self-Employment Workshop: Assessment to Start-Up Learn how to get started running your own business! Pre-register at CaPS, 2-100 SUB, today! Location: CaPS classroom; 4-02 SUB.

NOV 01 2002

University Teaching Services Improving the First Year Experience. It is a priority of the university's administration to improve the quality of the educational experience for students in their first two years at university. What can we as teachers suggest? Facilitator: Don Carmichael, Political Science. From noon to 1:00 p.m. Location: CAB 219. Web site: www.ualberta.ca/~uts

NOV 01 2002

Department of Biological Sciences Heather Proctor, Biological Sciences, University of Alberta, speaks on Mite-o-chondria, OR, How Often do Brush-Turkey Feather Mites Miss the Boat? Location: M-149, Biological Sciences at 12:00 noon. Web site: <http://www.biology.ualberta.ca/courses/biol631/>

NOV 01 2002

Department of Music University Symphony Orchestra, Concerto Competition. Final Competition. Free admission. 6:00 p.m.

NOV 01 2002

Department of Philosophy Dominique Leydet, Departement de Philosophie, Université du Québec à Montréal, will present: The Hourglass: Negotiation and Deliberation in Divided Societies. 3:00 p.m. Humanities Centre 4-29.

NOV 02 2002

Career and Placement Services (CaPS) Pharmacy Career Fair. Time: 10 a.m. - 3 p.m. Plan to stay the day as employers are holding sessions where they want to meet with Pharmacy students/alumni. Dinwoodie Lounge - 2-000 SUB. Website: www.ualberta.ca/caps

NOV 02 2002

Career and Placement Services (CaPS) Workshops for Arts Students. Resume Writing and Interview Skills for Arts students. Location: Room 4-02 SUB. Pre-register today at CaPS, 2-100 SUB. Web site: www.ualberta.ca/caps

NOV 03 2002

Workshop: Career Decision Making Strategies Learn how to use the tools & resources to make career choices that are right for you! Pre-register at CaPS, 2-100 SUB, today. Location: Resource Centre - 2-100 SUB.

NOV 04 2002

Department of Music Music at Noon, Convocation Hall Student Recital Series featuring students from the Department of Music. Free admission. 12:10 p.m.

NOV 04 2002

Career and Placement Services (CaPS) Career Forum: Information Careers in the New Economy. Time: 3 - 5 p.m. Admission is Free; however, please pre-register at CaPS, 2-100 SUB. Location: Rutherford South; 3-01. Web site: www.ualberta.ca/caps

NOV 04 2002

Department of Biological Sciences Botany 600 Seminar Series. Mike Deyholos, Department of Biological Sciences, University of Alberta presents a talk on "Functional genomics of osmotic stress responses." 12:00 noon. Room M-145 of the Biological Sciences Building. Web site: <http://www.biology.ualberta.ca/courses/bot600/>

NOV 04 2002

University Teaching Services Creating an Active Learning Environment. Students are more apt to learn at a deeper level if they are not merely recipients of knowledge, but actively involved in the learning process. We will explore ways to create dynamic learning environments that are classroom- and web-based. Presenter: Ellen Whybrow, Academic Technologies for Learning. Time: From 3:00 to 4:30 p.m. Location: CAB 243. Web site: www.ualberta.ca/~uts

NOV 04 - 08 2002

Brown Bag Lunch Seminars Brown Bag Lunch Seminars - They're FREE! CaPS brings you a taste of career building topics - all scheduled throughout the noon hours. They're free and you can just drop by with your lunch! Students and faculty welcome. Log on to our Web site for a current schedule. Location: CaPS Resource Centre - 2-100 SUB. November 4 to 8, 2002 and more scheduled throughout this term and next. Web site: www.ualberta.ca/caps

NOV 05 2002

Career and Placement Services (CaPS) Career Forum: Math/Statistics. Time: 3:30 - 5:30 p.m. Tickets just \$3 when you pre-register at CaPS, 2-100 SUB OR \$5 at the door. Location: CAB 239. Web site: www.ualberta.ca/caps

NOV 05 2002

International Centre Experience South Africa. Experience Africa by participating in a six-week cultural study program at the University of Natal, South Africa from June 23 - August 1. Participate in development projects and tour a traditional Zulu homestead in addition to course work. Special information session at 3:30. Location: International Centre.

NOV 05 2002

Department of Music Piano Masterclass, Milton Schlosser, (Adjunct Professor of Piano). Free admission. 3:30 p.m.

NOV 05 2002

International Centre Spanish in Mexico Information Session. Un, dos, tres...learn Spanish in Mexico! Participate in a 4-week Spanish language and culture program at the Universidad Autonoma de Guadalajara. Choose from June 16 - July 11 or July 14 - August 8. Information Session at 12:30 p.m. Location: International Centre.

NOV 05 2002

University Teaching Services Educating Professionals: An Introduction to Problem-Based Learning. University graduates are expected to think critically, integrate technical and practical knowledge, reflect on professional practice, and work cooperatively with colleagues. Problem-based learning (PBL) has been identified as one teaching strategy that facilitates the development of these skills. Participants in this session will have the opportunity to experience what it is like to be a learner in a PBL tutorial. Presenters: Rene Day and Beverly Williams, Nursing. Time: From 3:30 to 5:00 p.m. Location: CAB 281.

NOV 06 2002

Career and Placement Services (CaPS) Career Forum: Biological Sciences. Time: 5-7 p.m. Tickets just \$3 when you pre-register at CaPS, 2-100 SUB OR \$5 at the door. Location: Bio Sci CW 4-10. Web site: www.ualberta.ca/caps

NOV 06 2002

Department of Biological Sciences Biology 642 Seminar Series in Physiology, Cell and Developmental Biology. Trish Shulte, Zoology, University of British Columbia presents a talk on "Changes in gene expression as adaptations to environmental change." 12:00 noon in Room G-116 of the Biological Sciences Building. Web site: <http://www.biology.ualberta.ca/courses/biol642/>

NOV 06 2002

University Teaching Services Using Insights From Complexity Sciences to Enhance Student Learning. In this session, we explain how we use theoretical perspectives informed by the Complexity Sciences to develop teaching strategies that enhance student learning. Presenters: Brent Davis and Dennis Sumara, Secondary Education. Time: From 3:30 to 5:00 p.m. Location: CAB 281.

NOV 06 2002

Department of Medical Genetics Medical Genetics Seminar/Rounds. Professor Janet Sinsheimer, Department of Biostatistics, UCLA School of Medicine presents a talk entitled "Maternal-Fetal Genotype Incompatibility: A Disease Risk Factor." Location: 207 Heritage Medical Research Centre. Time: 12 noon. Host: Bruce Rannala. Web site: <http://www.medgen.med.ualberta.ca>

NOV 06 2002

PHS Colloquium & Grand Rounds Population Health (Guest Speaker): Dr Karen Grimsrud, Deputy Provincial Health Officer. "It's not IF, it's WHEN: Countering the Forthcoming Plague (the Next Flu Pandemic)." Location: Room 2-117, Clinical Sciences Building. Happens from 12 Noon - 12:50 p.m.

NOV 06 2002

International Centre Summer in Europe. Why just backpack around Europe? The University of Alberta is pleased to offer a 4-week European Study program at the Universite Catholique de Lille, France. Choose from June 2-27 or July 2 - 30. Special information session at 12:00. Location: International Centre.

NOV 07 2002

Academic Technologies for Learning "Effective Electronic Presentations." All too often the discussion surrounding electronic presentations, such as PowerPoint, begins and ends with talking about guidelines for how many words that you display on a slide. Unfortunately, this is overly simplistic as there are a large number of exciting and effective strategies that you can use when you create your slides that will enhance learning. This session will be useful for both beginning and more advanced users of presentation software. From 10:00 - 11:30 a.m. Location: Telus 214/216.

NOV 07 2002

Department of Music Jazz Masterclass. Visiting Artist Dean McNeill. Studio 27, Fine Arts Building 2-7. Free admission. 12:00 p.m.

NOV 07 2002

Watersheds, Wetlands and Oceans Dr. David Malcolm, Canadian Circumpolar Institute, "Climate variability in Canada's north: Walking on thin ice!" Location: 129 Education Building. From 4:30 to 5:30 p.m. Web site: www.ualberta.ca/ERSC/es.htm

NOV 07 2002

International Centre Study in India. Study for a term or year in Pune, India through the Term Abroad Program of the University of Calgary. Courses are available in Development Studies, Religion, History, Political Science, and the Hindi language. Field trips supplement the academic curriculum. A special information session will be given at 12:30 p.m. at the International Centre.

NOV 08 2002

Department of Biological Sciences Matthew Sachs, Department of Chemistry, Biochemistry, and Molecular Biology, Oregon Graduate Institute, speaks on "Translational Regulation of arg-2 gene expression in Neurospora crassa." Location: M-149, Biological Sciences Building. Host: Frank Nargang. 3:30 p.m.

NOV 08 2002

Department of Philosophy Professor Jaap van Brakel, Department of Philosophy, University of Leuven, Belgium, will present: Form(s) of Life. 3 p.m. in Humanities Centre 4-29.

NOV 08 2002

Department of Rural Economy Rural Economy Seminar by Gunnilla Nilsson, MSc Candidate. Topic: "Is Ignorance Bliss in Forest Management? Using Costs of Planning Uncertainties

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to Direct Forest Management Research." From 12:00 to 1:00 p.m. Location: 550 General Services Bldg.

NOV 08 2002

Department of Sociology Distinguished Demographer Lecture Series. A talk entitled 'Historical Trends in Parental Time: Are we investing less in children.' given by Anne Gauthier, Canada Research Chair, Department of Sociology, The University of Calgary. 11:00 a.m. Location: Tory Breeze Way Lecture Theatre #2.

NOV 08 2002

Environmental Health Sciences seminar series Dr. Vince St. Louis, Department of Biological Sciences, will present: "Mercury: the global pollutant." 2:00 p.m. Location: 10-120 Clinical Sciences Building.

NOV 08 2002

Public Lecture AHFMR Visiting Lecturer Professor Andrew Van de Ven, University of Minnesota, will present, "Virtuous and Vicious Cycles of Organizational Change: A Case in Health Care." Location: Stollery Centre, 5th Floor School of Business. From 9:30 to 11:00 a.m.

NOV 08 2002

International Centre Learn Portuguese in Brazil, the land of the Amazon and Carnaval! Participate in a 4-week Portuguese language program from July 1-31 at the Pontifica Universidade Catolica do Rio de Janeiro. Special information session at 12:00 p.m. at the International Centre.

NOV 08 2002

University Teaching Services Who Really Owns My WebCT Course? Creating an online course can be a time-consuming project. This session discusses some of the issues surrounding the use of copyrighted materials in your course, course ownership, and transfer rights. Facilitator: Susan Stein, Computing and Network Services. From noon to 1:00 p.m. CAB 219. Web site: www.ualberta.ca/~uts

NOV 08 2002

Department of Music Trumpet Masterclass. Visiting artist Dean McNeill. Studio 27, Fine Arts Building 2-7. Free admission. 10:00 a.m.

NOV 08 2002

Department of Music Visiting Artist Recital. Dean McNeill, trumpet. Program will include works by Arnold, Martini, Saint-Saëns, Gregson, Bozza, Gershwin and others. 8:00 p.m.

NOV 09 2002

Career and Placement Services (CaPS) Career Selection for Arts Students. 2-100 SUB. Pre-register today at CaPS, 2-100 SUB. Web site: www.ualberta.ca/caps

NOV 09 2002

Workshops Just for Science Students Resume Writing and Interview Skills are offered. Find out more about our faculty specific workshops and pre-register today at 2-100 SUB. Location: CaPS classroom; 4-02 SUB. Web site: www.ualberta.ca/caps

NOV 12 2002

Health Promotion & WorkLife Services Creative Aging - Entering the Age of Retirement. The Health Promotion & WorkLife Services Unit is sponsoring a 1 day workshop primarily designed for those who may be contemplating retirement. This workshop is open to both Academic and Support Staff members. Facilitators: John Betton, Wilson Banwell & Associates & John Wilms, Wilms Financial Group. From 9:00 a.m. to 3:00 p.m. Faculty Club - Papaschase Room. No Charge Lunch and snacks provided. Seating is limited: To register contact Sarah Gaudon, 492-0659 or e-mail sarah.gaudon@hrs.ualberta.ca . If you are interested in attending a workshop that will focus on the specifics of the Universities pension plans, please refer to the Pre-Retirement Seminars offered through Staff Learning & Development. Location: Faculty Club - Papachase Room. Web site: <http://www.hrs.ualberta.ca/HealthPromotion/>

NOV 13 2002

Department of Biological Sciences Biology 642 Seminar Series in Physiology, Cell and Developmental Biology. Xing-Zhen Chen, Physiology, U of A presents "Molecular mechanisms of polycystin channels." 12:00 noon, in Room G-116 of the Biological Sciences Building. Web site: <http://www.biology.ualberta.ca/courses/biol642/>

NOV 13 2002

iCORE Distinguished Lecturer Series Dr. Hugh Williams presents The mathematical foundations of communications security. LIVE LOCATION:

Telus Centre 134, University of Alberta at 4 p.m. Reception follows at 5. Admission is free. Everyone welcome. This presentation will also be Web cast and available for desktop viewing within 24 hours of live presentation at <http://www.icore.ca>.

NOV 13 2002

Living Leadership: The New Future Living Leadership: The New Future. Living Leadership will show you how to promote trust and supercharge effectiveness, becoming the leader you want to be. Speakers include: Jack Welch, Rudolf Giuliani, Ken Blanchard, John Maxwell and Michael Abrashoff. Time: 8:45 a.m. to 4:30 p.m. Tickets range in price from \$239 to \$299. U of A staff receive a 10% discount! Register early for this live via satellite event! Registrations are done online at www.cemd.ca Phone number is 492-5832 and e-mail is: cemd@ualberta.ca Location: Shaw Conference Centre - Hall C.

NOV 13 2002

Medical Genetics Rounds The Department of Medical Genetics presents Dr. John Huelsenbeck from the University of California, San Diego for our Rounds. The title of his talk is "Bayesian estimation of phylogeny." Location: 2-07 Heritage Medical Research Centre. From 12:00 to 1:00 p.m.

NOV 13 2002

PHS Colloquium & Grand Rounds Population Health: Dr Ron Plotnikoff, Adjunct Assistant Professor, Centre for Health Promotion Studies: "Physical Activity and Population Health" Location: Room 2-117, Clinical Sciences Building. 12Noon - 12:50 p.m.

NOV 13 2002

Reading by Paulette Dube Event sponsored by Department of English. Paulette Dube will read from her novel "Talon" at 2:00 p.m. in Humanities Centre, L-3.

NOV 13 2002

University Teaching Services Using the Web Strategically in Your Teaching. This hands-on session illustrates how to use the Web in ways that are appropriate to your discipline and teaching skills. Topics include the availability of campus resources to help you integrate the Web into your course, and planning and production issues. Presenter: Tracy Chao, Technologies for Learning Centre. Time: From 4:30 - 6:00 p.m. Location: Technology Training Centre (Cameron Library basement). Web site: www.ualberta.ca/~uts

NOV 14 2002

Academic Technologies for Learning "Working with Evaluative Requirements: Improving Grant Proposals." Research and other funding agencies often require evaluation to be built into grant applications. The session will focus on building a good evaluation plan to strengthen your proposal. You will be introduced to an overview of evaluation, some common misconceptions about evaluation as well as how you can use evaluation effectively for your proposal. From 3:00 to 4:30 p.m. Location: Telus 214/216.

NOV 14 2002

Career and Placement Services (CaPS) Agriculture Career Fair. Time: 1 - 4 p.m. Meet & greet employers who want to hire you. Admission is free. Location: Dinwoodie Lounge - 2-000 SUB. Web site: www.ualberta.ca/caps

NOV 14 2002

University Teaching Services So You Want to Be a Professional? Getting into a professional program is the goal of many students. The aim of this talk is to provide potential students, their teachers, and the just plain curious some insights into what happens afterwards on the road to becoming a professional. Presenter: Chris de Gara, Surgery. Time: From 4:30 - 6:00 p.m. Location: Education North 2-115. Web site: www.ualberta.ca/~uts

NOV 14 2002

Watersheds, Wetlands and Oceans Dr. Stephen Stanley, EPCOR, "Issues and advances in drinking water treatment in Alberta." Location: 129 Education Building. From 4:30 to 5:30 p.m. Web site: www.ualberta.ca/ERSC/es.htm

NOV 15 2002

Department of Biological Sciences Doug Morris, Lakehead University, speaks on "Tallying the votes: natural selection as a leading indicator of environmental change." Location: M-149, Biological Sciences Building at 12:00 noon. Web site: <http://www.biology.ualberta.ca/courses/biol631/>

NOV 15 2002

Department of Biological Sciences Department of Biological Sciences Molecular Biology and Genetics Research Group seminar series. Michel

Roberge, Department of Biochemistry, UBC presents "Cell-based screens and identification of invasion inhibitors and G2 checkpoint inhibitors" at 3:30 p.m. in Room M-149 of the Biological Sciences Building.

NOV 15 2002

Department of Philosophy Professor Trudy Govier presents "Prosecuting Crimes Against Humanity: Rule of Law and the Selectivity Arguments." Time: 3:00 p.m. Location: Humanities Centre 4-29.

NOV 15 2002

Department of Physiology & Pharmacology Dr. Virginia Brooks, Oregon Health Sciences University, will present: Role of osmolality in long-term control of sympathetic tone. 10:00 a.m. Location: Classroom D, 2F1.04 WMC.

NOV 15 2002

World Music Sampler 2002: Partners in Music Research An afternoon of world music! Starting at 2 p.m., join us for music and dance from around the world, with special guest Tom Phillips from Calgary. Everyone is welcome. Free admission. Note the new time and venue for this year's performance! Location: Studio 27 (FAB 2-7) and Second Floor Foyer, Fine Arts Building. Web site: www.arts.ualberta.ca/ETHNOMUSICOLOGY/wms2002.htm

NOV 15 2002

John Dossetor Health Ethics Centre Health Ethics Seminar Series. Genetics & Health in the Developing World: Is WHO too optimistic? Laura Shanner, PhD, John Dossetor Health Ethics Centre and Dept of Public Health Sciences, Faculty of Medicine and Dentistry. From 12:00 to 1:00 p.m. Location: Room 207, Heritage Medical Research Centre.

NOV 15 2002

Department of Music Flute Masterclass with Visiting Artist Susan Heppner. Free admission. 5:00 p.m.

NOV 16 2002


Global Legacy: Cultural Bridges in Music and Dance Join the Naad-Avaaz Ensemble and their guests at 8 p.m. in Convocation Hall. Tickets are \$12, \$10 Ragamala members/seniors, and \$8 students. Available at U of A Music Office (FAB 3-82), Avenue Guitars, Blackbyrd Myoosik, The Art Zone. For info, call: 492-0601 or 484-8470. Web site: www.arts.ualberta.ca/ETHNOMUSICOLOGY/wms2002.

NOV 16 2002

Career and Placement Services (CaPS) Workshop for Science Students. Career Selection for Students in Science. Pre-register today at CaPS, 2-100 SUB. Location 2-100 SUB. Web site: www.ualberta.ca/caps

NOV 17 2002

Department of Music The University Symphony Orchestra, Tanya Prochazka, Conductor. 8:00 p.m.



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8th Annual Ethics and Scientific Integrity Day

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Dr. John M. Last
Professor Emeritus of Epidemiology & Community Medicine
University of Ottawa

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2-27 Medical Sciences Building

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notices

Please send notices attention Folio, 6th floor General Services Building, University of Alberta, T6G 2H1 or e-mail public.affairs@ualberta.ca. Notices should be received by 3 p.m. one week prior to publication.

EFF: MCCALLA PROFESSORSHIPS

Small faculties application deadline Applications are invited from continuing faculty from the Faculties of Extension, Law, Nursing, Pharmacy and Pharmaceutical Sciences, Physical Education and Recreation, Rehabilitation Medicine, Faculté Saint-Jean, School of Native Studies, Interdisciplinary Research Units. These prestigious awards provide full-time teaching relief for the period September - April to enable recipients to pursue a research project in Edmonton. Application information is available from Dean's Offices. Applications must be received by the Vice-Provost (2-10 University Hall) by December 1, 2002.

Stan Wilson	492-8778
stan.wilson@ualberta.ca	
Michelle Tripe'de' Roche	492-7218
mgt@ualberta.ca	
Sara Cardinal	492-2991
slc7@ualberta.ca	
Frank Weasel Head	(403) 737-2086 N/A
Linda Anderson	435-9725
lma52@shaw.ca	
Bev Findlay	492-0519
bfindlay@gpu.srv.ualberta.ca	

NOMINATIONS FOR ACADEMIC STAFF TO SERVE ON THE BOARD OF GOVERNORS

Two academic staff representatives serve on the Board of Governors on nomination by General Faculties Council. As of January 25, 2003, there will be a vacancy on the Board of Governors for one academic staff representative. This position is currently held by Dr. Fordyce Pier, Chair, Department of Music. The other academic representative on the Board is Dr. Reuben Kaufman, Department of Biological Sciences. An election will now take place to fill the upcoming vacancy on the Board of Governors.

The procedures which govern this election are contained in Section 22 of the GFC Policy Manual and are available from the University Secretariat, 2-5 University Hall, and on the World Wide Web (www.ualberta.ca/~unisecr/). These regulations provide that "the two academic staff members who serve on the Board of Governors must come from Category A1.0, at least one of whom shall be a member of Category A1.1 who does not hold one of the following administrative positions at the time of the initial nomination: Vice-President, Associate or Assistant Vice-President, Dean, Director of Native Studies, Associate or Assistant Dean, or Department Chair." Category A1.0 includes all staff who are continuing full-time and part-time Faculty, APOs, FSOs, Librarians, and Soft-Tenure Faculty. Nominees must be employed in Category A1.0 throughout the term of appointment to the Board and, in addition, must be willing and able to serve for the full term of appointment on a continuous basis. A full term on the Board is normally three years. If there is a question about a candidate's eligibility, the GFC Executive will decide. Since Dr. Reuben Kaufman is a member of Category A1.1 and does not hold an administrative position, the vacancy to be filled is open to any member of Category A1.0.

The Nomination Procedures are as follows:

Nominations may be submitted in writing to Mr Garry Bodnar, Acting Secretary to GFC, 2-5 University Hall.

Nominations must be RECEIVED in the University Secretariat no later than 4:30 p.m. Tuesday, November 26, 2002.

Nominations must be supported by the signatures of five full-time or part-time continuing academic staff (other than the nominee).

Nominees must be willing and able to serve and normally will serve a three-year term on both the Board and General Faculties Council.

A biographical sketch of the nominee should accompany the letter of nomination.

As the University Secretariat receives nominations, the names will be posted on the University Secretariat website at www.ualberta.ca/~unisecr.

Any questions about these procedures should be directed to Mr Garry Bodnar at 492-4733 or by e-mail (garry.bodnar@ualberta.ca).

SELECTION COMMITTEE FOR DIRECTOR, SCHOOL OF NATIVE STUDIES

As you know, Dr. Frank Tough's term as Director of the School of Native Studies will end on June 30, 2003 and an advisory Selection Committee has been established in accordance with University regulations to begin the search for a new Director.

At this point in its deliberations, the Selection Committee needs your opinions on the leadership needs of the School in the years ahead and any other key issues. Individuals are urged to contact members of the Committee, or write to me as Chair, to express your views on the priorities of the School of Native Studies, current issues, and the future direction of the School. In order to facilitate the committee's work, could I please ask that you submit your comments by November 20, 2002.

In addition, individuals who may wish to stand as a candidate are invited to apply. Individuals may also nominate others who they feel would be suitable candidates.

The selection of a Director is vital to the success of the School of Native Studies. I would therefore ask you all to take the time, even at this hectic point in the academic year, to give some thought to the future of the School.

Your views are important to us and will be solicited again later in the process with an opportunity, at that time, to meet and question our final short-listed candidates at public forums. Thank you for your assistance.

Please forward your comments to the address or e-mail below:

Bill Connor
2-10 University Hall
University of Alberta
Edmonton, AB T6G 2J9
E-Mail: provost@ualberta.ca

Bill Connor
Vice-Provost and
Chair of Selection Committee
Director of School of Native Studies
Selection Committee for Director
School of Native Studies
Membership Contact Information:

Bill Connor	492-3318
provost@ualberta.ca	
Paul Sorenson	492-2918
paul.sorenson@ualberta.ca	
Andrew Greenshaw	492-5920
andy.greenshaw@ualberta.ca	
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chris.andersen@ualberta.ca	
Malcolm King	492-6703
malcolm.king@ualberta.ca	
Patricia McCormack	492-7690
pmccorma@telusplanet.net	

positions

The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPPA). The University of Alberta hires on the basis of merit. We are committed to the principle of equity of employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons. With regard to teaching positions: All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

DIRECTOR OF THE SCHOOL OF NATIVE STUDIES

The University of Alberta invites applications and nominations for the position of Director of the School of Native Studies. It is the mission of the School of Native Studies to provide a common ground for Native and non-Native students to learn, research, explore and critically examine the historical and contemporary relations that concern Native peoples and communities. The School of Native Studies values its autonomy as a faculty within the university. It actively promotes Indigenous languages, the contribution of Elders to teaching, research and sense of direction, and the highest scholarly standards for the creation and dissemination of knowledge. The School offers a

range of programs, including a Bachelor of Arts in Native Studies; Bachelor of Arts in Native Studies (Honors); Bachelor of Arts in Native Studies/Bachelor of Education Five-Year Combined Degree; and the newly created Bachelor of Arts in Native Studies/Bachelor of Science in Environmental and Conservation Sciences Combined Degree. Over 300 students are currently enrolled in degree programs in Native Studies, with many more taking courses as options or as secondary fields of concentration. As well, plans exist for the development of a graduate program. Further information may be obtained at <http://www.ualberta.ca/NATIVESTUDIES>. The director is the Senior Officer of the School and also a Senior Administrative Officer of the University of Alberta. S/he provides leadership to the School, which involves creating, developing and maintaining an

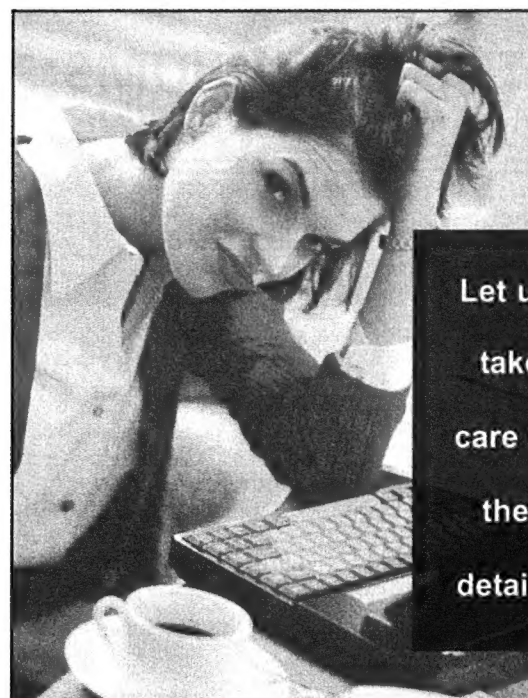
environment that is characterized by excellence in research, teaching and community service. The director will also convey the vision and mandate of the School to the university and Aboriginal communities, as well as to the broader public. In the director's capacity as a senior officer of the university, s/he must also be prepared to work for the overall interests of the university. The director reports to the Provost and Vice-President (Academic) and is responsible for the supervision and administration of the academic program, budget and all activities of the School. Candidates should have a demonstrated capacity for collegial leadership, strong academic qualifications in a discipline related to the School's teaching program, proven administrative ability and must be committed to excellence in teaching and research. The director must also be capable of developing warm and effective relationships with Aboriginal communities, alumni and other supporters of the School. Aboriginal lived experience and fluency in a Native language will be considered assets. The University of Alberta has a driving vision, shared by the School of Native Studies: to be indisputably recognized, nationally and internationally, as one of Canada's finest universities and among a handful of the world's best. In this context the university has a strong interest in implementing a range of Aboriginal initiatives, in which the director will have the opportunity to take a leadership role. The appointment will take effect July 1, 2003 or as soon as possible thereafter. Send written nominations or applications, accompanied in the latter case by a résumé of qualifications and experience, and the names of three referees to:

Dr. H.W. Connor
Vice-Provost and Dean of Students
2-10 University Hall
University of Alberta
Edmonton, AB Canada, T6G 2J9
Email: provost@ualberta.ca
Deadline: January 15, 2003

ASSISTANT PROFESSOR, FAMILY STUDIES DEPARTMENT OF HUMAN ECOLOGY

The Department of Human Ecology invites applications for a tenure track Assistant Professor in the area of Family Studies. The start date for the position is July 1, 2003 or before. The department offers a BSc in human ecology with majors in family and consumer studies, community studies, and textiles and clothing; a combined undergraduate degree with

education; MA and MSc degrees in family ecology and practice, and textiles and clothing (both thesis and course-based options); and a PhD degree in human ecology. We have a strong commitment to education, advocacy and policy development, and family and community diversity themes including age, gender, income, ethnicity and disability. A recent \$4.1 million renovation to the Human Ecology Building has provided the department with excellent facilities for conducting and teaching social science research including in-depth, survey, focus group, and observational research. The department is part of the Faculty of Agriculture, Forestry, and Home Economics, an interdisciplinary faculty that values excellence in teaching and research. For further information see www.hecol.ualberta.ca. The responsibilities for the position include: undergraduate and graduate teaching in family studies/human ecology; supervising Master's and PhD students; establishment of an independent research program in family development (especially young families), family dynamics and interaction, family well being; and, performing administrative roles at the department, faculty, and university levels. The required qualifications for the position include a PhD or equivalent in family studies, human ecology, family sociology or related discipline with a scholarly focus on families, and demonstrated teaching excellence. Specialties of particular interest include family development (especially young families), family dynamics and interaction, family well being. The successful candidate will have a background that is a good fit with the department and faculty and enhances our ability to provide relevant, high quality education and research programs. The successful candidate will have demonstrated leadership ability and is expected to develop a strong research program consistent with the faculty's commitment to multi-method, collaborative research. The salary range for the position is commensurate with experience at the level of Assistant Professor; the 2002/2003 salary range for Assistant Professor is \$47,184 – 66,816. The competition closing date is December 30, 2002. Please submit applications to: Dr. Nancy Gibson, Chair, Department of Human Ecology, 3-02E Human Ecology Building, University of Alberta, Edmonton Alberta T6G 2N1 Canada (780) 492-3883; fax (780)-492-4821; E-mail nancy.gibson@ualberta.ca. Include in the application package: letter of application addressing qualifications and a statement of research and teaching interests; curriculum vitae including a list of publications; graduate transcript(s); the names and contact information of three referees; and, a sample refereed journal article.



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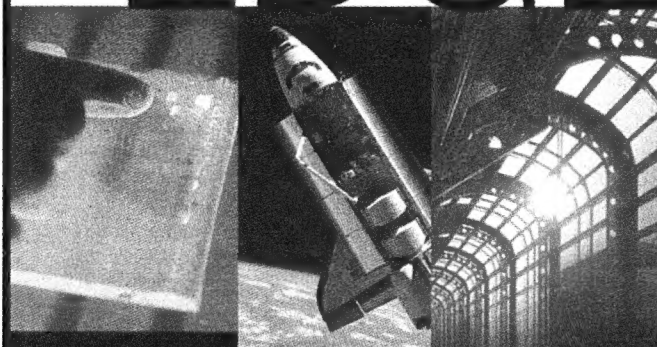
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Membership Services Officer

Association of Academic Staff, University of Alberta

The Association of Academic Staff: University of Alberta requires a membership services officer. The Association represents academic staff at the University: professors, sessionals, administrators, librarians, faculty service officers, research associates. The officer will be a member of a team providing professional services to academic staff, in particular.

- advise academic staff on concerns and enquiries related to the collective agreement and their employment relationship with the University
- represent academic staff in faculty evaluations, academic appeals, disciplinary investigations; assist in the preparation of materials and provide advice (on probable outcomes and alternatives)
- develop and maintain a working knowledge of the collective agreements and relevant University policies and carry out research as required
- maintain a relationship of trust with the University administration

Qualifications

The Membership Services Officer will have extensive academic or administrative experience in a post-secondary research oriented environment, and experience or formal qualification in alternative dispute resolution techniques. Additional qualifications may include, but are not limited to, a professional degree, designation as a lawyer with specialization in dispute resolution, or MBA with specialization in human resource management.

Compensation will be commensurate with qualifications and includes a comprehensive benefits package.

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Applications, including a resume and the names of references, should be submitted to:

Howard Welch, Executive Director
AAS:UA, 306 Campus Tower
University of Alberta, Edmonton, AB T6G 1K8
howard.welch@ualberta.ca
Not later than November 30, 2002.

RESEARCH ASSOCIATE CHEMICALS AND MATERIALS ENGINEERING

As part of the research program that is being conducted under the NSERC-EPCOR-AERI Industrial Research Chair in Advanced Coal Cleaning and Combustion Technology, we are seeking a candidate for the position of research associate. The candidate should have combined expertise in chemical engineering, coal cleaning and combustion technology, and coal combustion emission control. Strong background in chemistry, in particular in analytical chemistry will be an asset. The candidate must have a high level of physical understanding of coal combustion emission. The candidate should have demonstrated research independence with minimum supervision and have published in prestigious learned journals. The position is available for an initial one year. Interested candidates should apply, prior to December 1, 2002, directly to: Professor Zhenghe Xu, Department of Chemical and Materials Engineering, University of Alberta, Edmonton, Alberta, T6G 2G6.

ASSISTANT PROFESSOR CHEMICALS AND MATERIALS ENGINEERING

Applications are invited for a tenure-track faculty position at the Assistant Professor level in the general areas of energy and/or energy and the environment. The position is currently open and will be filled as soon as possible. Candidates must either hold a PhD in chemical engineering, or related field, or expect to receive one shortly after taking up their appointment. Successful candidates will be expected to establish viable and productive research programs, and teach both graduate and undergraduate courses. The position is intended to complement our current strength in Utilization of Fossil Energy Resources and Interfacial Phenomena. One component of the research program will be airborne toxin emission control from coal combustion, to complement an NSERC-EPCOR-AERI Industrial Research Chair in Advanced Coal Cleaning and Combustion Technology. For information about our department, please consult our Web site at <http://www.ualberta.ca/CMENG>. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. A résumé, the names of three confidential refer-

ences, and a statement of current research interests and plans for future research should be sent to: Dr. J. Forbes, Department of Chemical and Materials Engineering, University of Alberta, Edmonton, Alberta, T6G 2G6 Applications are requested prior to December 15, 2002.

MANAGER STAFF LEARNING AND DEVELOPMENT

Applications are invited for the position of Manager, Staff Learning and Development, Human Resource Services, at the University of Alberta. The successful applicant will be responsible for developing learning opportunities that assist the university in the achievement of its strategic goals by improving the administrative, operational, and leadership skills of its staff. Duties include providing leadership in the development of a sustainable Workplace Learning Plan; developing ongoing business plans and budgets that align learning on campus with the Human Resource Strategic Plan and the overall strategic objectives of the university; investigating strategic issues and determining when learning and development opportunities are the appropriate, cost-effective solution to workplace issues; and, developing partnerships with internal and external providers and work with them to customize training to the needs of the university community. Candidates should have a post-secondary degree in Business or Adult Education, preferably at the graduate level, and several years of experience running a corporate, university or large organization training centre with a number of years' experience working at the executive level of the organization. The candidate will possess outstanding team leadership skills, analytical skills and experience with financial management; and experience developing communication plans and strategies are essential. This is a full-time Administrative/ Professional Officer position with a comprehensive salary and benefits package. The current salary range for this position is \$52,087. to \$82,467. per annum. The closing date for applications is Friday, November 15, 2002. Please submit your résumé and three letters of reference to: Ms. Cynthia Caskey, Employment Services, Human Resource Services, University of Alberta, 2-40 Assiniboia Hall, Edmonton, Alberta, T6G 2E9.

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A little bit of Salsa

Professor dances his way into world championships

By Phoebe Dey

Photos: Chul Ang-Jeong



By day, he's a scientist. By night, he's lighting up the dance floor on campus and around the city. Usukuma Ekuere, a senior agrogenomics research associate in the Faculty of Science, teaches a popular salsa dance class through the University of Alberta's Campus Recreation office. And this week he'll be representing Canada in the World Salsa Championships in Miami, Florida.

Ekuere has come a long way since he first set eyes on the seductive dance as a graduate student in England. He was

working on his PhD when he took a break from his studies, went to a party and saw couples dancing the salsa.

"I looked at them and thought, 'wow, it's absolutely beautiful,'" said Ekuere, who originally hails from Nigeria. "I had never even heard of salsa – it was a total shock. I just needed to dance and now it's what I love to do." He signed up for lessons and soon became addicted to salsa. When he arrived in Edmonton several years ago, his passion for the Latin number didn't quit.

About three years ago, someone from Campus Recreation approached a campus group called SALSA (Spanish and Latin Student Association) about finding a dance teacher. "Everybody looked at me because I was, supposedly, the dancer," said Ekuere. Since then he has spent most Wednesday nights on campus turning beginners into salsa pros.

Although Ekuere can't promise he will turn his students into experts in one day, he is amazed by the improvements made after a few weeks of class. "The greatest

"It's very intimate, very sensual and it just looks so sexy when you watch it. I thought it was beautiful to watch, but when I got to dance it – it's just so fun. You almost don't know what is going on around you. You get lost in it. It's amazing."

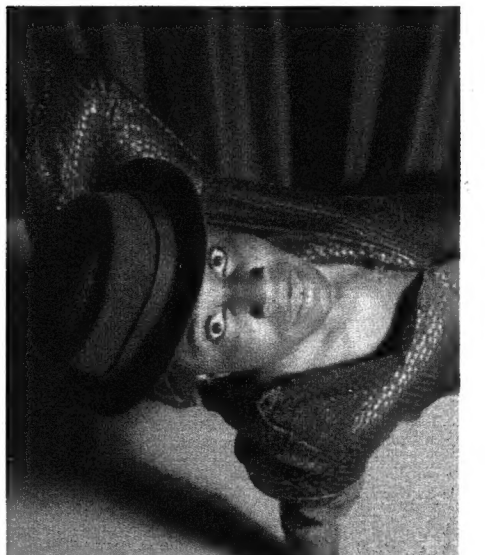
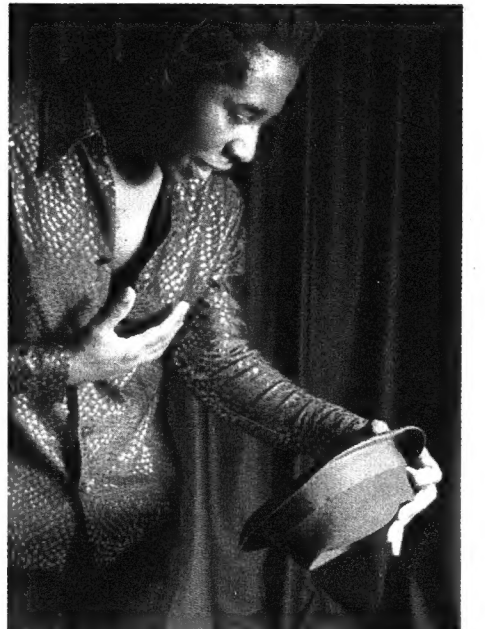
– Dr. Usukuma Ekuere

joy is to see the difference from day one – where a lot of people don't know much about the dance at all and they really struggle – to the next classes where they get better and better. By the sixth class, I'm just blown away by how much they learn."

Because of the class's popularity, Ekuere started teaching an intermediate-level course, off campus. When he's not researching or teaching, he's choreographing and practicing for the international competition in Florida. He and his partner, Diane Moy, are part of a group of 22 dancers that will compete at world championships. Ekuere choreographed some parts of the intricate number that features dancers from Edmonton and Calgary.

And just what is it about the salsa that Ekuere finds so appealing?

"It's very intimate, very sensual and it just looks so sexy when you watch it. I thought it was beautiful to watch, but when I got to dance it – it's just so fun. You almost don't know what is going on around you. You get lost in it. It's amazing."■



Usukuma Ekuere, a senior agrogenomics research associate in the Faculty of Science, teaches a popular salsa dance class through the University of Alberta's Campus Recreation office. He is representing Canada in the World Salsa Championships in Miami, Florida.

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